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JRH

Scott M. Matheson
Governor

nes O. Mason, M.D., Dr.P.H.
Executive Director
801-533-6111

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R. J. CLERK
OCT 21 1983

STATE OF UTAH
DEPARTMENT OF HEALTH
DIVISION OF ENVIRONMENTAL HEALTH
150 West North Temple, P.O. Box 2500, Salt Lake City, Utah 84110-2500

October 17, 1983
533-6108

Kenneth Lee Alkema, Director
Room 474 801-533-6121

James H. Anthony, Project Director
Intermountain Power Project
P. O. Box 111, Room 931
Los Angeles, CA 90051

RE: Approval Order for Construction Modification of IPP, Millard County

Dear Mr. Anthony:

On August 27, 1983, the Executive Secretary published a notice of intent to approve the downsizing of the Intermountain Power Project (IPP) from four to two units and modifications of boiler ratings and air pollution control facilities for the Millard County plant. A hearing was held to gather comments on your proposal on September 26, 1983. All comments received have been closely evaluated and appropriate changes are hereby made to the approval order originally issued by the state on December 31, 1980. The conditions of the PSD permit issued by EPA on June 8, 1980, have also been consolidated in this modified order.

This air quality approval order authorizes the modifications as presented in your notice of intent dated April 14, 1983, and subsequent negotiations. The following conditions apply:

1. The boilers will be constructed and operated according to the specifications in the contract document number 2010N, as submitted to the Executive Secretary on April 14, 1983.

2. The sulfur dioxide scrubber will be constructed and operated according to the specifications in the contract document number 9255.62.0202, as submitted on April 14, 1983.

3. The fabric filters will be constructed and operated according to the specifications in the contract document number 9255.62.0203, as submitted on April 14, 1983.

4. No boiler unit shall exceed 8.352×10^9 BTU/hr heat input rate, as determined by ASTM Method D3176, D2015-77, or D3286-82 and the coal feed rate measured by the plant instrumentation. Records of heat input will be kept for two years and made available to the Executive Secretary upon request. Calibration of the plant coal feed rate meters shall be approved by the Executive Secretary. If coal other than bituminous is proposed for use, a notice of intent to modify shall be filed with the Executive Secretary in accordance with Section 3.1, UACR.

5. No boiler unit shall discharge to the atmosphere:

a. Particulate matter at a rate exceeding:
(1) 0.020 lb/10^6 BTU heat input

b. Sulfur dioxide at a rate exceeding:
(1) 0.150 lbs/10^6 BTU heat input
(2) 10.0 percent of the potential combustion concentration

c. Nitrogen oxides at a rate exceeding:
(1) 0.550 lbs/10^6 BTU heat input

d. Visible emissions in excess of 20% opacity

6. The emission limitations in paragraph 5 above will be determined by the following procedures:

a. Particulate matter: 40 CFR 60.48a (a (1-6))

b. Sulfur dioxide: 40 CFR 60.48a (b (1+2)) (30 day average)

c. Nitrogen oxides: (1) 40 CFR 60.48a (c) (30 day average)

d. Opacity: 40 CFR 60, Appendix A, Method 9, and/or by six minute averages of the output of the continuous emission monitor required by 40 CFR 60.47 (a) and the Utah Air Conservation Regulations (UACR), Section 4.6.

e. Performance testing shall be completed by the time frame required by 40 CFR 60.8 a. For the purpose of 40 CFR 60.8 a, maximum production rate shall be a boiler heat input of 7.517 X 10^9 BTU/hr and initial startup shall be the first day electricity is produced by the generator.

7. Emission of particulate matter from the following dust collectors shall not exceed a concentration of 0.024 gr/dscf and the following rates:

a. (1) railcar unloading (4 units)	15.3 lbs/hr each unit
(2) transfer building one	7.1 lbs/hr
(3) unit one 13A	6.9 lbs/hr
(4) transfer building two	5.5 lbs/hr
(5) transfer building four	3.7 lbs/hr
(6) crusher building one	3.8 lbs/hr
(7) unit one 13B	3.5 lbs/hr
(8) unit two 14A	4.1 lbs/hr
(9) unit two 14B	3.5 lbs/hr
(10) limestone preparation building	3.5 lbs/hr

b. Stack testing of the dust collectors listed in 7.a (1, 2, &3) above shall be completed within 60 days of startup of each unit. Stack testing of collectors listed in 7.a (4 through 10) shall be as directed by the Executive Secretary. Ducting of gas flow from those dust collectors shall be designed to meet the requirements of 40 CFR 60, Appendix A, Method 1. 40 CFR 60 Methods 2 - 5 shall be used for testing.

8. Visible emissions from the following dust collectors shall not exceed 20% opacity as determined by 40 CFR 60, Appendix A, Method 9:

a. coal truck unloading
b. reserve reclaim
c. limestone truck unloading hopper
d. reclaim hopper
e. crusher building
f. each of the dust collectors listed in 7.a.1 through 10

9. Fugitive emissions from the following sources shall be minimized by using the control techniques herein and visible emissions from these sources shall not exceed 20% opacity, and shall be evaluated in accordance with Section 4.1.9, UACR:

a. coal and limestone conveyor belts - enclosed on three sides
b. coal and limestone dumpers - underground receiving
c. coal stack out - telescopic spout and wet suppression
d. coal and limestone reclaim - underground plow
e. coal and limestone storage active pile - residual moisture
f. coal and limestone reserve pile - compacting and crusting agent
g. limestone stack out - telescopic spout
h. flyash silo unloading - mix with scrubber sludge
i. coal and limestone haul road - paved
j. solid waste area access road - $CaCL_2$ or other dust suppressant treatment
k. solid waste haul road - watering
l. solid waste/soil stockpile - watering
m. solid waste burial pile - compaction and reseeding

Note: A fugitive dust control plan shall be submitted to the Executive Secretary for approval prior to startup of the specific operations and shall include as a minimum: control techniques proposed, quantity of suppressant (where applicable), and frequency of application (where applicable).

10. Malfunctions of process or air control equipment shall be reported and handled in accordance with Section 4.7, UACR, and 40 CFR 60.46a.

11. Reports required by 40 CFR 60.49a shall be submitted to the Executive Secretary within the time frame specified in (i) of that part.

12. A quality control program for the continuous monitoring system required by 40 CFR 60.47a and Section 4.6, UACR, must be developed and implemented. As a minimum, the quality control program must have written procedures for each of the following activities:

a. installation of CEMs
b. calibration of CEMs
c. zero and calibration checks and adjustments for CEMs
d. preventive maintenance for CEMS (including parts inventory)
e. data recording and reporting
f. program of corrective action for inoperable CEMs
g. annual evaluation of CEM system

The quality control program must be described in detail, suitably documented, and approved by the Executive Secretary prior to the date of performance testing.

13. Post construction monitoring of ambient air for at least one year after startup is required. A monitoring and quality assurance plan for post construction monitoring must be submitted for approval by the Executive Secretary no later than six months before initial startup of either boiler.

14. All installations and facilities authorized by this approval order shall be maintained in proper condition.

The state is required to charge a fee for the review of the modifications. Enclosed is an itemized list of charges. The $5446.09 is payable to the Utah Department of Health (sent through the Executive Secretary) and is due upon receipt of this order.

Sincerely,

Brent C. Bradford
Executive Secretary
Utah Air Conservation Committee

MRK/ads
enclosures (4)
cc: EPA Region VIII (J. Philbrook)
Central Utah District Health Dept.
4012

ITEMIZED COSTS FOR NOTICE OF INTENT

The following are final costs incurred by the Bureau of Air Quality to review your proposal and issue a modified approval order.

Engineering Review (includes modeling)		$4865.76
Computer (indirect)		350.00
Administrative		324.02
	Total	$5539.78